Air Flow Company, inc.

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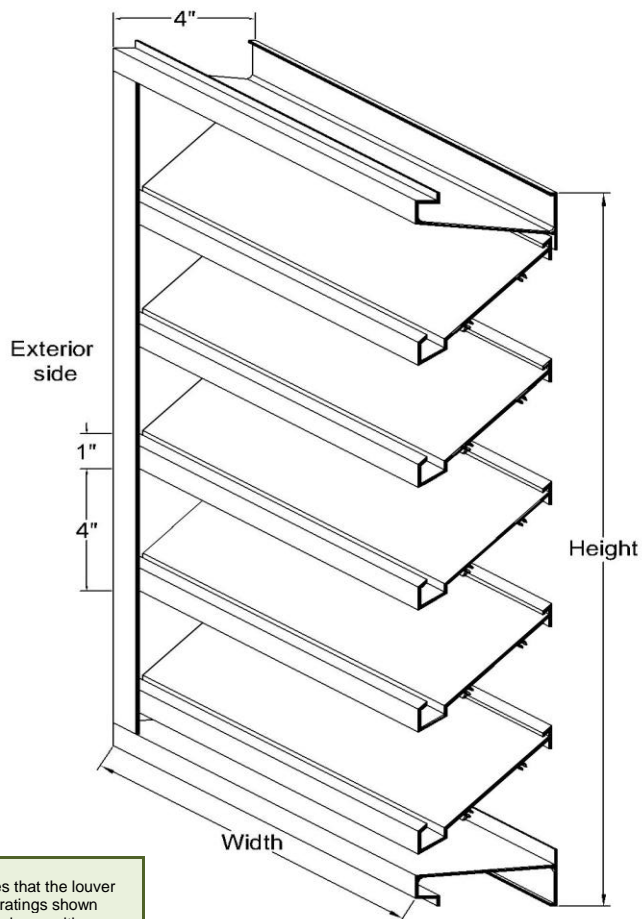# FS-403
4" Deep Drainable Blade Stationary Louver
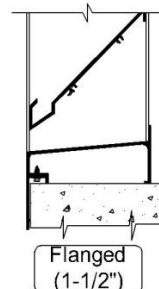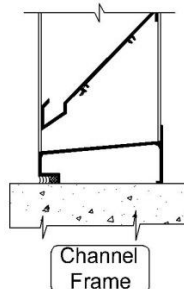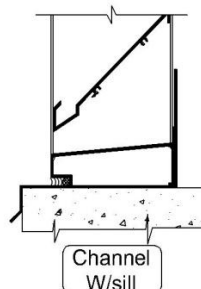
Standard Louver Construction

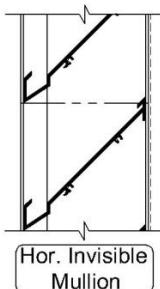|		
✓	**Frame**	Channel
✓	**Frame Thickness**	20 Gauge Galvanized steel
✓	**Blades Thickness**	20 Gauge Galvanized steel
✓	**Blade Positioning**	45° angle with 4" spacing center to center
✓	**Fasteners**	3/16" plated steel rivets exposed to view
✓	**Screen**	½" wire mesh 19 gauge galvanized bird
✓	**Finish**	Mill
✓	**Undersized**	¼" under opening sizes
✓	**Mullions**	Invisible
✓	**Minimum Size**	12" x 12"
✓	**Maximum Single Section**	120" x 84" or 84" x 120

Optional Construction

Material	Stainless steel
	Copper
Frames	Up to10 gauge ( )Ga.
Blades	Up to16 gauge ( )Ga.
Fasteners	Welded Construction
	Stainless Steel Fasteners
Screen	.063" x ½" Aluminum wire mesh Bird Screen
	½" S.S. Wire Mesh Bird Screen
	18 x 16 Insect screen in Frame
Finish	Prime coat
	Baked enamel
	Powder coat
	Kynar 500 | 2 Coat | 3 Coat
Mullions	Visible
Frame Accessories	Flange
	Pan
	Extended sill

Exterior side

4" 1" 4" Height Width

Air Flow Company Inc. Louver Model **FS-403** certifies that the louver shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings.

Exposed Mullion	Invisible Mullion	Hor. Invisible Mullion	Channel W/sill	Channel Frame	Flanged (1-1/2")
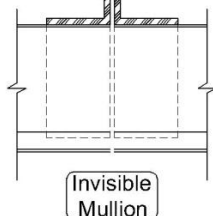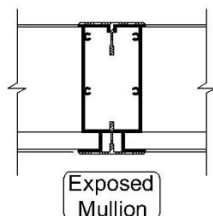
Louver Schedule

Item	Qty	Opening Size (W x H)	Notes		
				Project:	
				Location:	
				Arch/Eng:	
				Customer:	

Free Area Calculations (sq. ft.)

		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
	12	0.33	0.53	0.72	0.92	1.11	1.31	1.50	1.70	1.89	2.09	2.28	2.48	2.67	2.87	3.06
	18	0.58	0.92	1.26	1.60	1.94	2.29	2.63	2.97	3.31	3.65	4.00	4.34	4.68	5.02	5.36
	24	0.88	1.40	1.93	2.45	2.98	3.50	4.03	4.55	5.07	5.60	6.12	6.65	7.17	7.70	8.22
	30	1.16	1.85	2.55	3.24	3.93	4.63	5.32	6.01	6.71	7.40	8.09	8.79	9.48	10.17	10.86
	36	1.41	2.25	3.09	3.93	4.77	5.61	6.45	7.29	8.13	8.97	9.81	10.65	11.49	12.33	13.17
	42	1.67	2.67	3.67	4.68	5.68	6.68	7.68	8.68	9.68	10.68	11.68	12.68	13.68	14.68	15.68
	48	1.99	3.18	4.37	5.56	6.76	7.95	9.05	10.33	11.52	12.71	13.90	15.09	16.29	17.48	18.67
H	**54**	2.24	3.57	4.91	6.25	7.59	8.93	10.27	11.60	12.94	14.28	15.62	16.96	18.29	19.63	20.97
E	**60**	2.48	3.97	5.45	6.94	8.42	9.91	11.39	12.88	14.36	15.85	17.33	18.82	20.30	21.79	23.27
I	**66**	2.78	4.45	6.12	7.79	9.45	11.12	12.79	14.46	16.13	17.79	19.46	21.13	22.80	24.46	26.13
G	**72**	3.07	4.90	6.74	8.57	10.41	12.25	14.08	15.92	17.76	19.59	21.43	23.27	25.10	26.94	28.78
H	**78**	3.31	5.29	7.28	9.26	11.24	13.23	15.21	17.19	19.18	21.16	23.14	25.13	27.11	29.09	31.08
T	**84**	3.58	5.72	7.87	10.01	12.15	14.30	16.44	18.59	20.73	22.87	25.02	27.16	29.31	31.45	33.59
	90	3.90	6.23	8.56	10.90	13.23	15.57	17.90	20.24	22.57	24.91	27.24	29.58	31.91	34.24	36.58
	96	4.14	6.62	9.10	11.59	14.07	16.55	19.03	21.51	23.99	26.47	28.96	31.44	33.92	36.40	38.88
	102	4.39	7.01	9.64	12.27	14.90	17.53	20.16	22.79	25.41	28.04	30.67	33.30	35.93	38.56	41.18
	108	4.69	7.50	10.31	13.12	15.93	18.74	21.56	24.37	27.18	29.99	32.80	35.61	38.42	41.23	44.04
	114	4.97	7.95	10.93	13.91	16.89	19.87	22.85	25.83	28.81	31.79	34.77	37.75	40.73	43.71	46.69
	120	5.22	8.34	11.47	14.60	17.72	20.85	23.98	27.10	30.23	33.36	36.48	39.61	42.74	45.86	48.99

WIDTH (inches) (column headers) / HEIGHT (inches) (row headers)

Air Performance

Pressure Drop (WG inches) vs VELOCITY THROUGH FREE AREA (fpm) — Intake
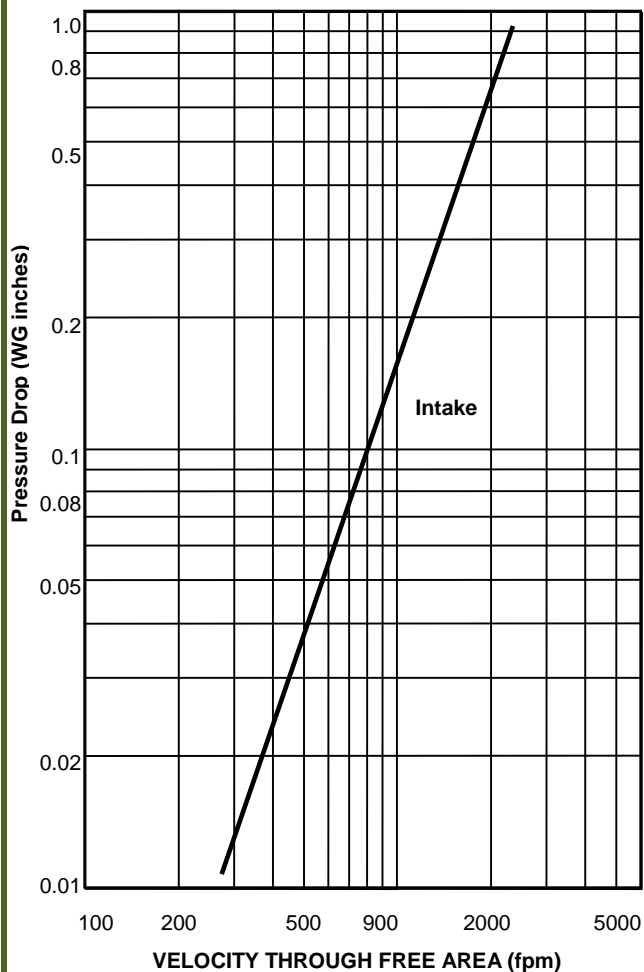
♦ To determine the pressure drop of a louver:
Calculate the Velocity thru free area; divide the required CFM (volume of air) by the required free area above chart. The pressure drop is expressed in (inches w.g.)

♦ To determine the minimum free area required for louver:
Divide the required CFM (volume of air) by the free area velocity before water penetration, then select the most desirable louver size from the free area chart above.

♦ To determine the maximum CFM (volume), knowing the louver size:
Multiply the required free area (see above free area chart) by maximum velocity thru free area.

Water Penetration
Beginning of water penetration = 1108.47 FPM
(15 Min Duration)

OZ./SQ. FT Free Area vs Free Area Velocity (fpm)